7555 and 7555-1 Type K-5 Potentiometer

Parts List
A0.1213PT
1967

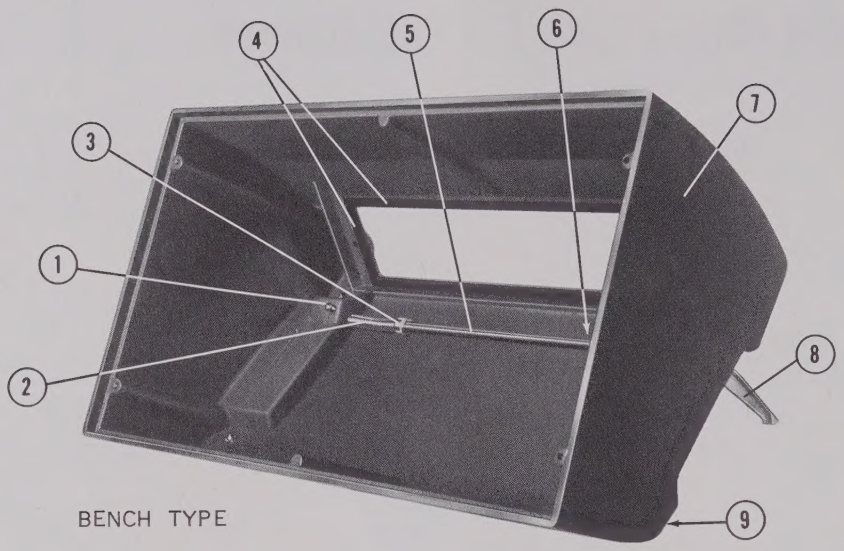
SN 1742501
11-15-68

DIRECTIONS 177362

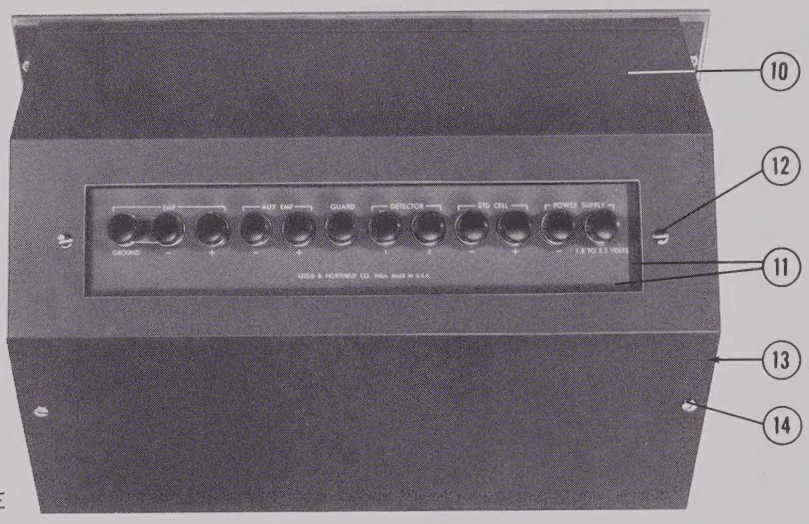
When Ordering Parts... Specify by Part Number and Description, *not* by Symbol Number.
Note: Numbers in parentheses following description indicate quantity used.

Case Assembly.....page 2
External Panel.....page 3
Interior Assembly.....pages 4, 5
Sub-Plate Assembly.....page 6
Current Adjustment Assembly...page 7
Range Change Potentiometer Assembly...page 8
Terminal Board Assembly.....page 9
Accessories.....page 10
Type K-5 Complete Facilities.....page 11
Calibration, Repair, Replacement.....page 11

MP MASTER
MA29118



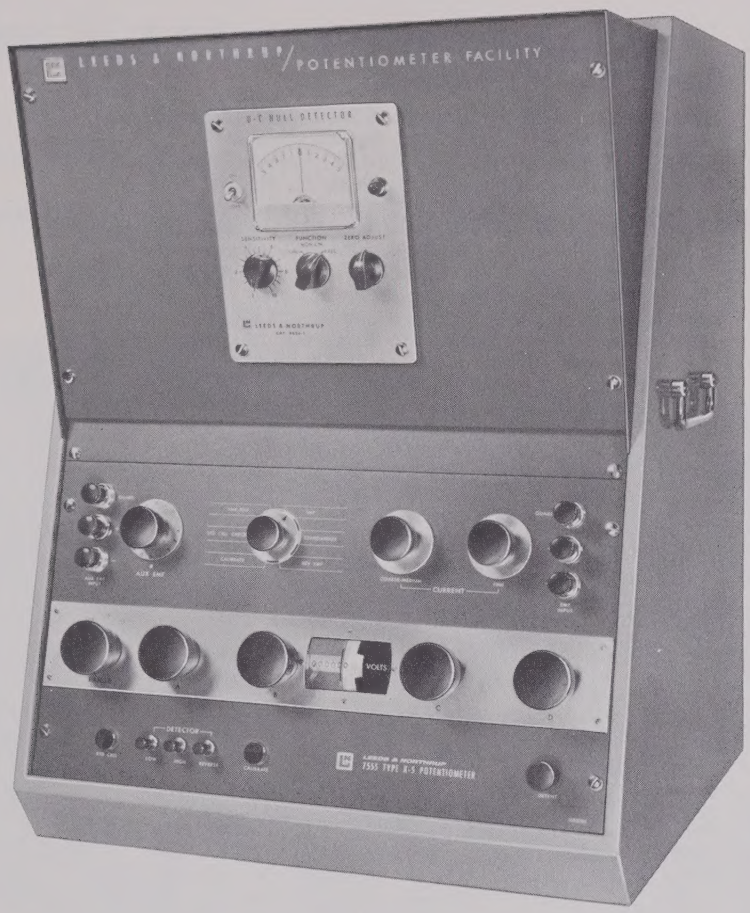
BENCH TYPE



RACK TYPE

Case Assembly

SYM.	PART NO.	DESCRIPTION
--	239064	Case Assembly; Consists of syms 1 to 9
1	4-20-1-3 3-1-1-29	Screw; 5/8", 8-32 Fil HB, Cr.P. Hex Nut; 8-32 Br, Cr.P.
2	028309	Spring
3	044109	Collar
4	23.12-2	Sponge Rubber Strip; 3/16" x 1/4" x 2-11/16" (sides) 3/16" x 1/4" x 14-1/8" (top & bottom)
5	059726	Shaft
6	27-3-3-6	Retaining Ring; (not shown)
7	239063	Case
8	127430	Leg (2)
9	Std 2222-A 4-15-1-13 1-1-1-40 1-11-3-3	Bumper; (4) (not shown) Screw; 1/2", 8-32 RHB, Cr.P. (4) Washer; #8 Br, Cr.P. (4) Lockwasher; #1108 Shakeproof (4)
--	095148	Dust Cover; (not shown)
--	--	Relay Rack Mounting; specify symbols 10 to 14
10	067933	Case
11	23.12-2	Sponge Rubber Strip; 3/16" x 1/4" x 2-11/16" (sides) 3/16" x 1/4" x 14-1/8" (top & bottom)
12	--	Screw; 1/2", 10-32 Bind HB, Cr.P. (2)
13	273025	Bracket; see sym 18 page 5
14	--	Screw; 1/2", 10-32 Bind HB, Cr.P. (2) For holding case to panel



Complete Facilities

7555-A-10 Potentiometer Facility Consists of following:

7555-1	Type K-5 Guarded Potentiometer
9834-1	Guarded D-C Null Detector
7308	Unsaturated Standard Cell
7597	Two-Volt Storage Cell

7555-A-12 Potentiometer Facility Same as 7555-A-10 except:

9878 Constant Voltage Power Supply in place of 7597 Storage Cell

Repairs...L&N repair, if required, is available in four types: (1) Emergency repair (2) Electrical repair (3) Electrical and Mechanical repair (4) Complete reconditioning. Contact the L&N Office nearest you for complete information and instructions for shipment to our North Wales plant.

Replacement of Potentiometer Circuit Slidewire And Switches... The K-5 Universal Guarded Potentiometer is a precision instrument with an accuracy of ±(0.003% of reading +3 μv) on the high range. Because the potentiometer circuit slidewire, switches and their component resistors have been calibrated to a close interrelated tolerance, and of the intricacies involved in replacement, we recommend that the instrument be returned to L&N for repair to assure continued optimum performance.

Calibration Reports... Periodic recalibration service is available to provide correction data and conditions of test. The calibration report is based on standards maintained by L&N Company and certified at intervals by the National Bureau of Standards. The service includes a general "trouble-shooting" check, and an overall cleaning of exposed contacts, slidewires, terminals, etc. For more extensive repair, see REPAIRS.

Replacement Parts Policy..."L&N will endeavor to make available replacement L&N-produced functional parts for at least ten (10) years following the date of withdrawal from general sale of the cataloged product in which the parts are used. For those parts or components purchased by L&N from sources over which L&N has no control of supply, there is no guarantee of availability."

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MP MASTER
MA29118

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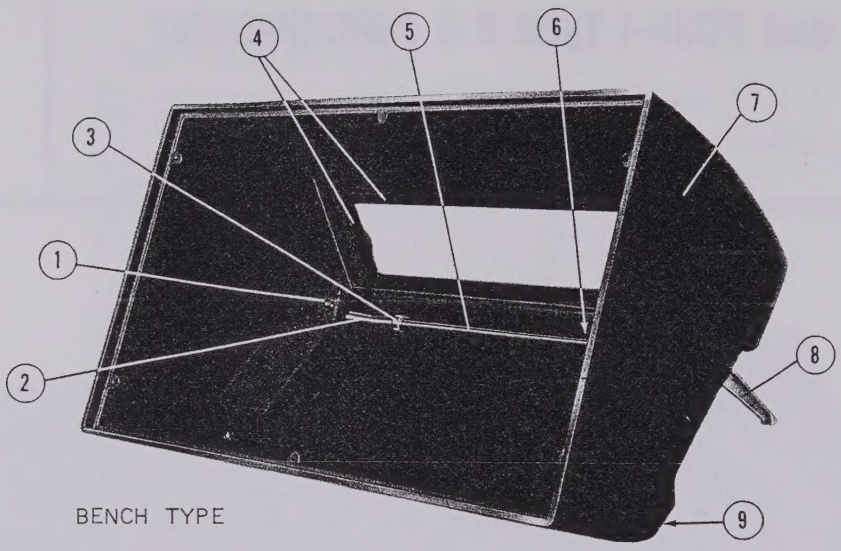
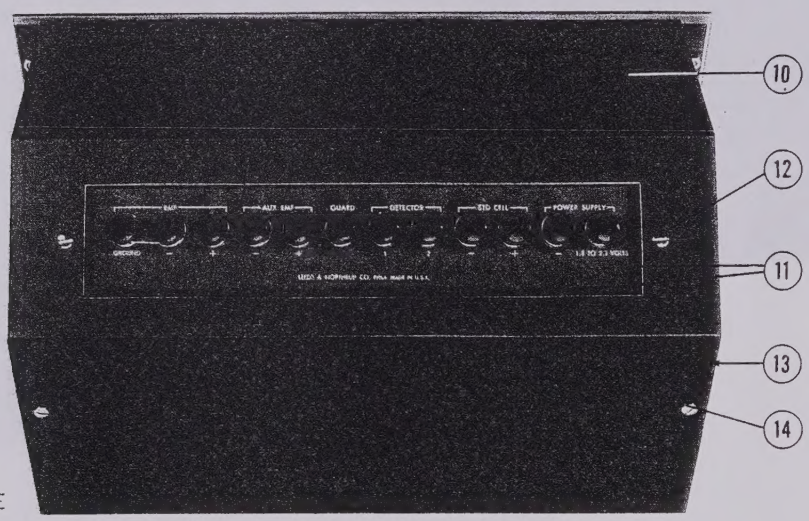


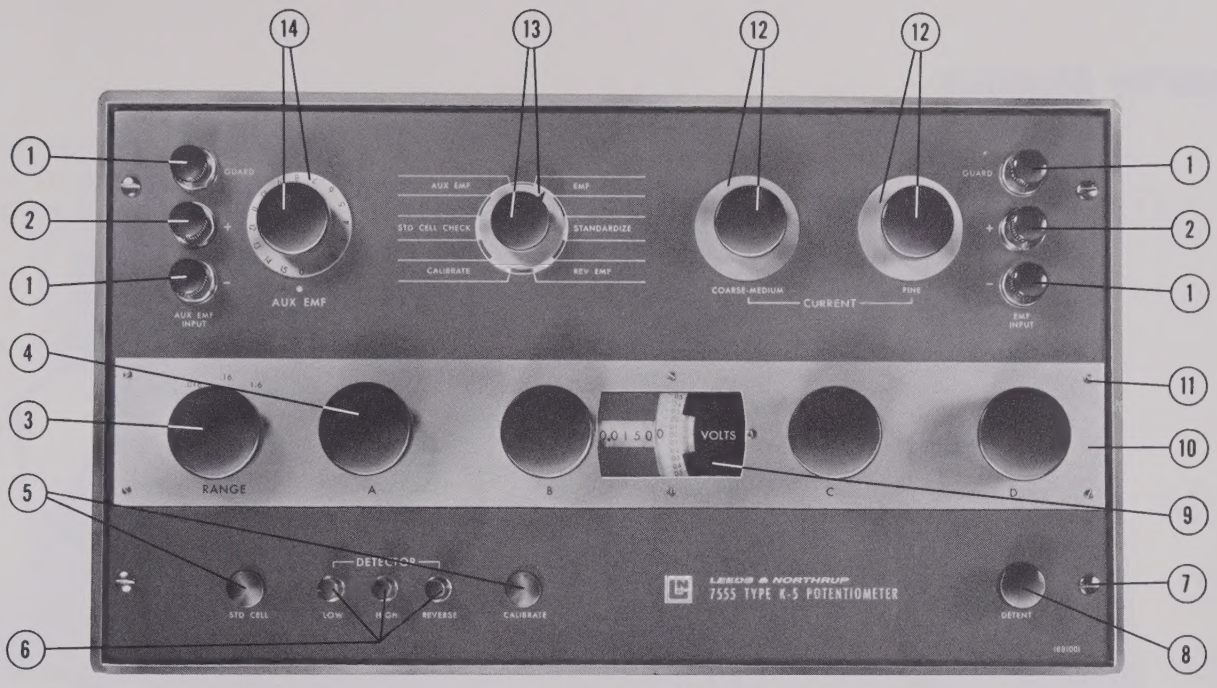
BENCH TYPE



RACK TYPE

Case Assembly

SYM.	PART NO.	DESCRIPTION
--	239064	Case Assembly; Consists of syms 1 to 9
1	4-20-1-3 3-1-1-29	Screw; 5/8", 8-32 Fil HB, Cr.P. Hex Nut, 8-32 Br, Cr.P.
2	028309	Spring
3	044109	Collar
4	23.12-2	Sponge Rubber Strip; 3/16" x 1/4" x 2-11/16" (sides) 3/16" x 1/4" x 14-1/8" (top & bottom)
5	059726	Shaft
6	27-3-3-6	Retaining Ring; (not shown)
7	239063	Case
8	127430	Leg (2)
9	Std 2222-A 4-15-1-13 1-1-1-40 1-11-3-3	Bumper; (4) (not shown) Screw; 1/2", 8-32 RHB, Cr.P. (4) Washer; #8 Br, Cr.P. (4) Lockwasher; #1108 Shakeproof (4)
--	095148	Dust Cover; (not shown)
--	--	Relay Rack Mounting; specify symbols 10 to 14
10	067933	Case
11	23.12-2	Sponge Rubber Strip; 3/16" x 1/4" x 2-11/16" (sides) 3/16" x 1/4" x 14-1/8" (top & bottom)
12	--	Screw; 1/2", 10-32 Bind HB, Cr.P. (2)
13	273025	Bracket; see sym 18 page 5
14	--	Screw; 1/2", 10-32 Bind HB, Cr.P. (2) For holding case to panel



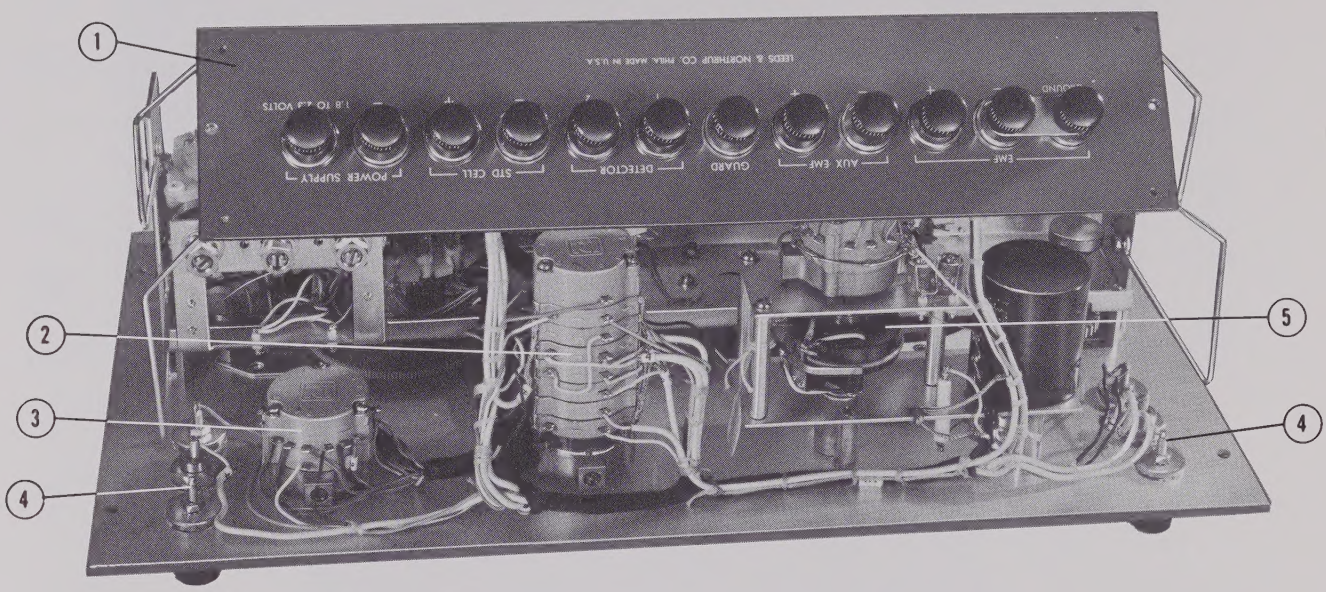
External Panel

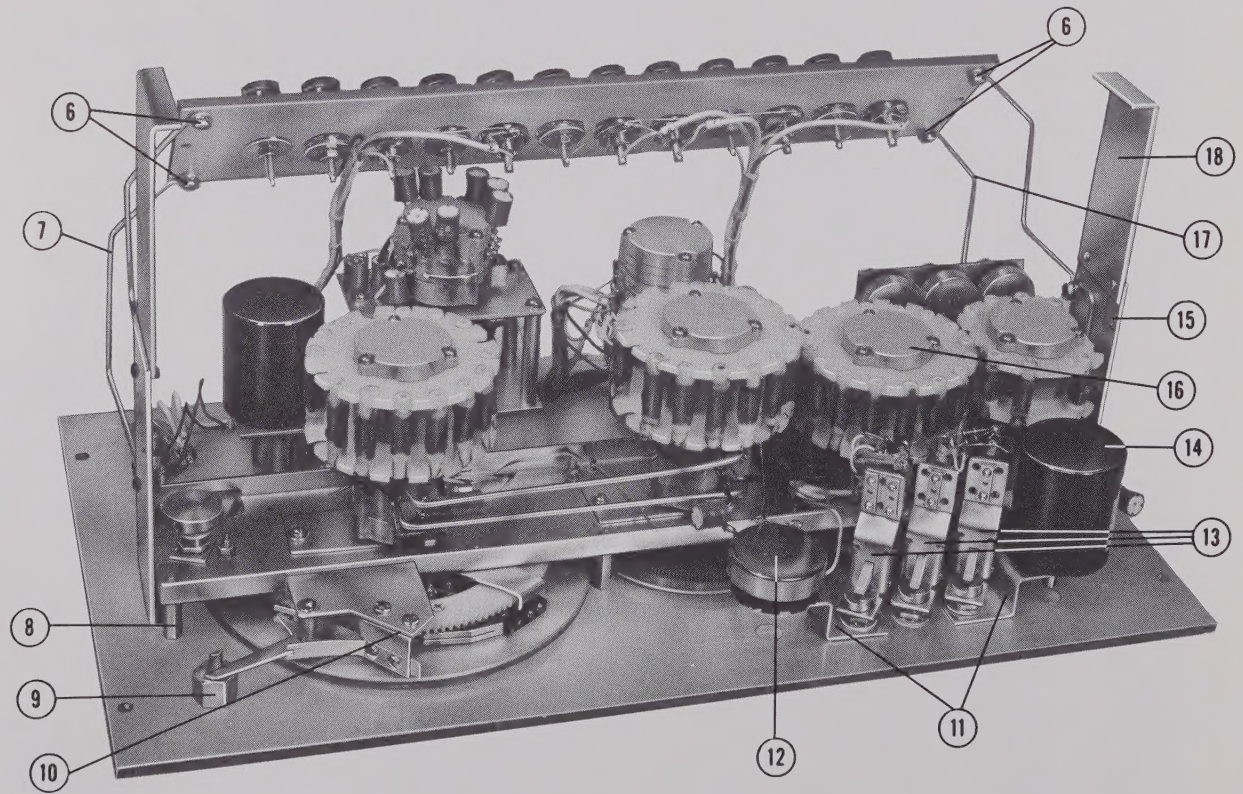
SYM.	PART NO.	DESCRIPTION
1	124275	Binding Post Assembly; Consists of:
	002199	Knob
	034565	Insulator; 23/64" thick
	034491	Insulator; 11/64" thick
	001861	Washer; 7/8" OD, Br.
	061467	Stud; Copper
	3-1-1-29	Hex Nut; 8-32 Br, Cr.P.
	--	Lockwasher; #1808 Shakeproof
2	124274	Binding Post Assembly; Consists of:
	002199	Knob
	016587	Body, with Stud
	034491	Insulator; 11/64" thick (2)
	016588	Terminal
	R-403-K	Hex Nut; 1/2-36 Br.
3	002246	Knob
4	002205	Knob; A, B, C, D (4)
5	004859	Thumb Screw; 3/16", 1/2-20 Knurled Hd, Br, Cr.P. (2)
6	--	Detector Keys
	031187	Low Key; SPST, Nonlockdown
	003325	Hex Nut; 8-32 Br, Cr.P.
	--	Lockwasher; #1220-02 Shakeproof
	042073	Knob
	Std 3257-J	Washer; 5/16" OD, 3/64" thick, CRES
	003279	Nut; 3/8-32 Knurled Round
	* 031180(Mod)	High Key; SPDT, Lockdown
	003325	Hex Nut; 8-32 Br, Cr.P.
	--	Lockwasher; #1220-02 Shakeproof
	042073	Knob
	Std 3257-J	Washer; 5/16" OD, 3/64" thick, CRES
	003279	Nut; 3/8-32 Knurled Round
	031186	Reverse Key; DPDT, Nonlockdown
	003325	Hex Nut; 8-32 Br, Cr.P.
	--	Lockwasher; #1220-02 Shakeproof
	042073	Knob
	Std 3257-J	Washer; 5/16" OD, 3/64" thick, CRES
	003279	Nut; 3/8-32 Knurled Round

SYM.	PART NO.	DESCRIPTION
7	--	Screw; 1/2", 10-32, Bind HB, Cr.P. (4)
8	002200	Knob
	003325	Hex Nut; 8-32 Br, Cr.P.
	--	Lockwasher; #1220-02 Shakeproof
	Std 3075-A	Spacer
	059699	Shaft and Bushing Assembly
9	066171	Window; Volts, Red and Black
	066170	Window; with hairline
	--	Screw; 1/4", 2-56 Bind HSS (2)
10	269044	Dress Plate
11	--	Screw; 1/4", 2-56 Bind HSS (6)
12	002204	Knob
	110168	Dial
	--	Screw; 5/16", #2 Ph FH, Thread Cutting, Shakeproof (4)
13	002228	Knob and Dial Assembly; Includes:
	002201	Knob
	110086	Dial
	004821	Screw; 3/16", 6-32 Soc H, Cup Pt, SS
	001823	Washer; 1-3/16" Delrin
14	002204	Knob
	110169	Dial
	--	Screw; 5/16", #2 Ph FH, Thread Cutting, Shakeproof (4)

* *Before replacing 031180 High Key, convert from non-lockdown to lockdown; loosen knob approximately 3 turns and depress shaft just enough for pin to clear end of bushing. Turn pin 90 degrees from normal position and retighten knob.*

Interior Assembly

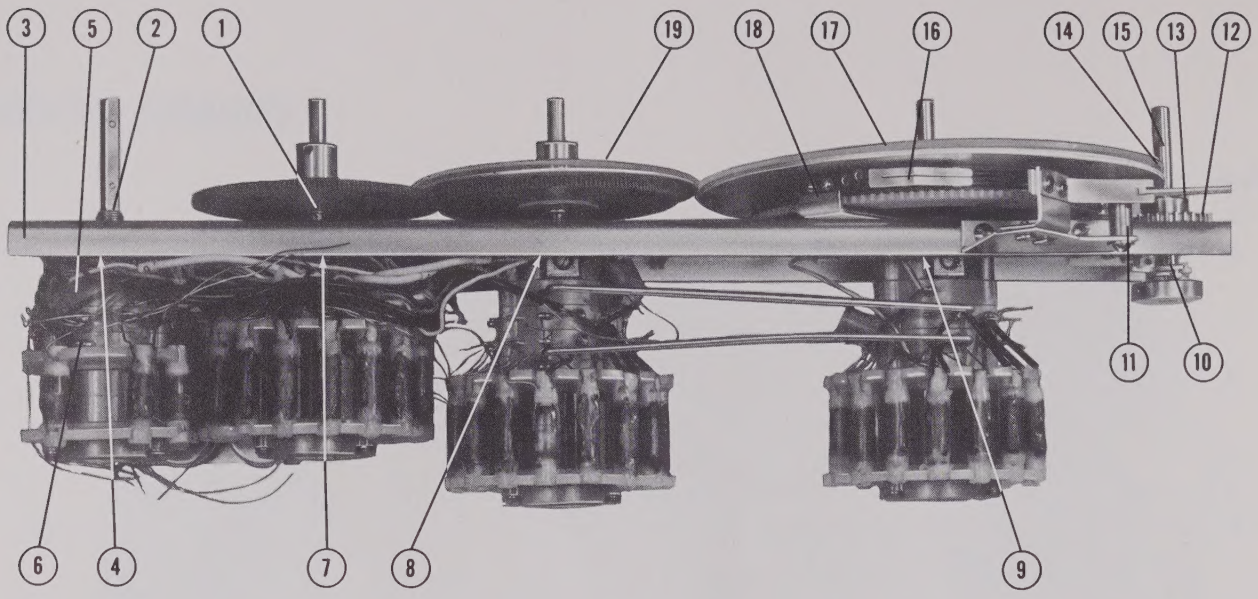




SYM.	PART NO.	DESCRIPTION
1	016921	Terminal Board Assembly; page 9
2	031370	Function Switch; includes resistors
	175012	Stop Spacer
	--	Screw; 5/16", #2 Ph FH Thread Cutting
	--	Lockwasher; #1220-02 Shakeproof
	003325	Hex Nut; 8-32 Br, Cr.P.
3	031415	Auxiliary EMF Switch
	--	Lockwasher; #1220-02 Shakeproof
	003325	Hex Nut; 8-32 Br, Cr.P.
4	--	Binding Post; see sym 1 and 2 page 3
5	012529	Current Adjustment Assembly; see sym 1 to 18 page 7
6	004662	Screw; 5/16", 8-32 Bind HB, Cr.P. (4)
	1-1-1-40	Washer; #8 Br, Cr.P. (4)
	1-11-3-3	Lockwasher; #1108 Shakeproof (4)
7	273022	Wire Bracket
	--	Screw; 3/8", 6-32 Button H, Soc Cup (2)
	1-13-1-2	Washer; #6 Br, Cr.P. (2)
	1-11-3-2	Lockwasher; #1106 Shakeproof (2)
	3-1-1-28	Hex Nut; 6-32 Br, Cr.P. (2)
8	301013	Spacer (6)
9	057699	Shaft and Bushing Assembly
*10	094270	Detent Assembly
	004523	Screw; 3/16", 6-32 Bind HB, Cr.P. (2)
11	073993	Bracket (2)
12	013201	Calibrate Potentiometer; 200 ohms
	310294	Resistor; 13,184 ohms, 1/10 watt
13	--	Detector Keys; sym 6 page 3
14	013202	Potentiometer; Standard Cell
15	273024	Bracket (2)
	004767	Screw; 1/2", 8-32 FHB, Cr.P. (4)
	1-12-3-2	Lockwasher; #8 Kantlink (4)
	R-54-S	Nut; 8-32 Br. (4)
16	012499	Sub-Plate Assembly; syms 1 to 19 page 6
17	273023	Wire Bracket
	--	Screw; 3/8", 6-32 Button H, Soc Cup (2)
	1-13-1-2	Washer; #6 Br, Cr.P. (2)
	1-11-3-2	Lockwasher; #1106 Shakeproof (2)
	3-1-1-28	Hex Nut; 6-32 Br, Cr.P. (2)
18	273025	Bracket; for relay rack mounting (2)
	--	Screw; 3/8", 6-32 Button H, Soc, Cup (4)
	1-13-1-2	Washer; #6 Br, Cr.P. (4)
	1-11-3-2	Lockwasher; #1106 Shakeproof (4)
	3-1-1-28	Hex Nut; 6-32 Br, Cr.P. (4)
▲--	055096	Decimal Index Pointer
	004870	Shoulder Screw; 1/4", 6-32 FH SS

* *Adjust detent spring for 16 to 20 ounces of detent pressure. Align the hair lines, loosen spring and move to align a major scale division with the merged hair lines. Tighten so detent shaft is free to rotate with the lever against the flat of the shaft. Adjust lever pivot so pin and lever miss detent spring and lever does not touch gear. Adjust and tighten shaft and bushing assembly sym 10 so pin in bushing stops detent shaft with flat aligned with lever.*

▲ *The decimal index pointer is fastened to the top plate by the shoulder screw. When mounting pointer fasten Sub-Plate Assembly 012499 sym 1 to 19 page 6 to top plate to secure pointer to range switch. To adjust pointer loosen nut and screw holding range switch to sub-assembly plate, adjust lever and eccentric until decimal point on pointer is centered between numbers in the window. Retighten screw and nut.*

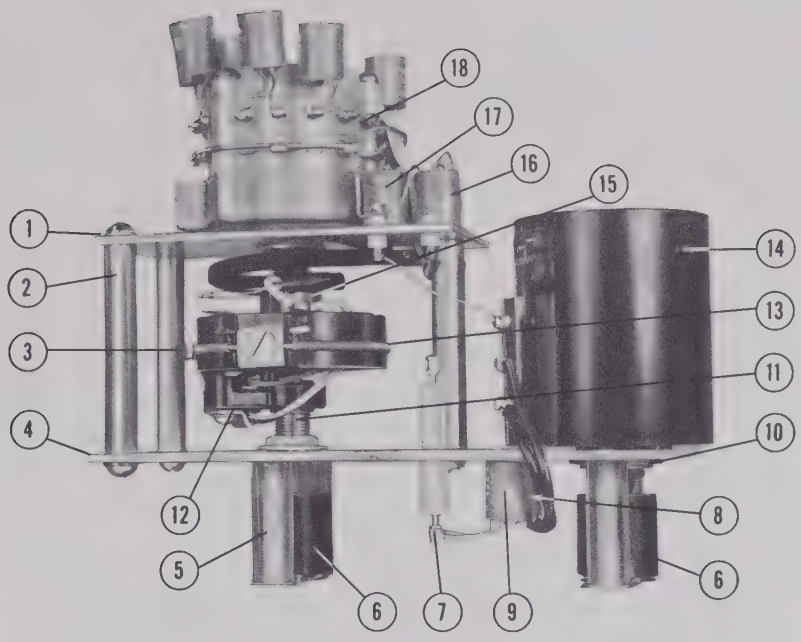


Sub-Plate Assembly

SYM.	PART NO.	DESCRIPTION
1	009960	Spur Gear
	174002	Eccentric
	003262	Hex Nut; 3/8-32 Br.
2	027295	Retainer
	—	Screw; 1/4", 8-32 SS, Soc, Cup Pt.
	003262	Hex Nut; 3/8-32 Br.
	174002	Eccentric
3	269014	Sub-Plate
4	154023	Lever
	4-15-1-5	Screw; 1/4", 6-32 RHB, Cr.P.
	1-13-1-2	Washer; #6 Br, Cr.P.
	1-12-3-1	Lockwasher; #6 Kantlink
5	012515	Range Change Potentiometer Assembly Consists of syms 1 to 7 page 8
	4-15-1-5	Screw; 1/4", 6-32 RHB, Cr.P. (2)
	1-12-3-1	Lockwasher; #6 Kantlink (2)
6	031371	Range Switch; includes resistors
7	* 031372	"A" Switch; includes resistors
	154021	Lever
	4-15-1-5	Screw; 1/4", 6-32 RHB, Cr.P.
	1-13-1-2	Washer; #6 Br, Cr.P.
	1-12-3-1	Lockwasher; #6 Kantlink
8	* 031373	"B" Switch; includes resistors
	003262	Hex Nut; 3/8-32 Br.
	154021	Lever
	4-15-1-5	Screw; 1/4", 6-32 RHB, Cr.P.
	1-13-1-2	Washer; #6 Br, Cr.P.
	1-12-3-1	Lockwasher; #6 Kantlink
9	* 031373	"C" Switch; includes resistors
	006696	Bushing
	154021	Lever
	4-15-1-5	Screw; 1/4", 6-32 RHB, Cr.P.
	1-13-1-2	Washer; #6 Br, Cr.P.
	1-12-3-1	Lockwasher; #6 Kantlink

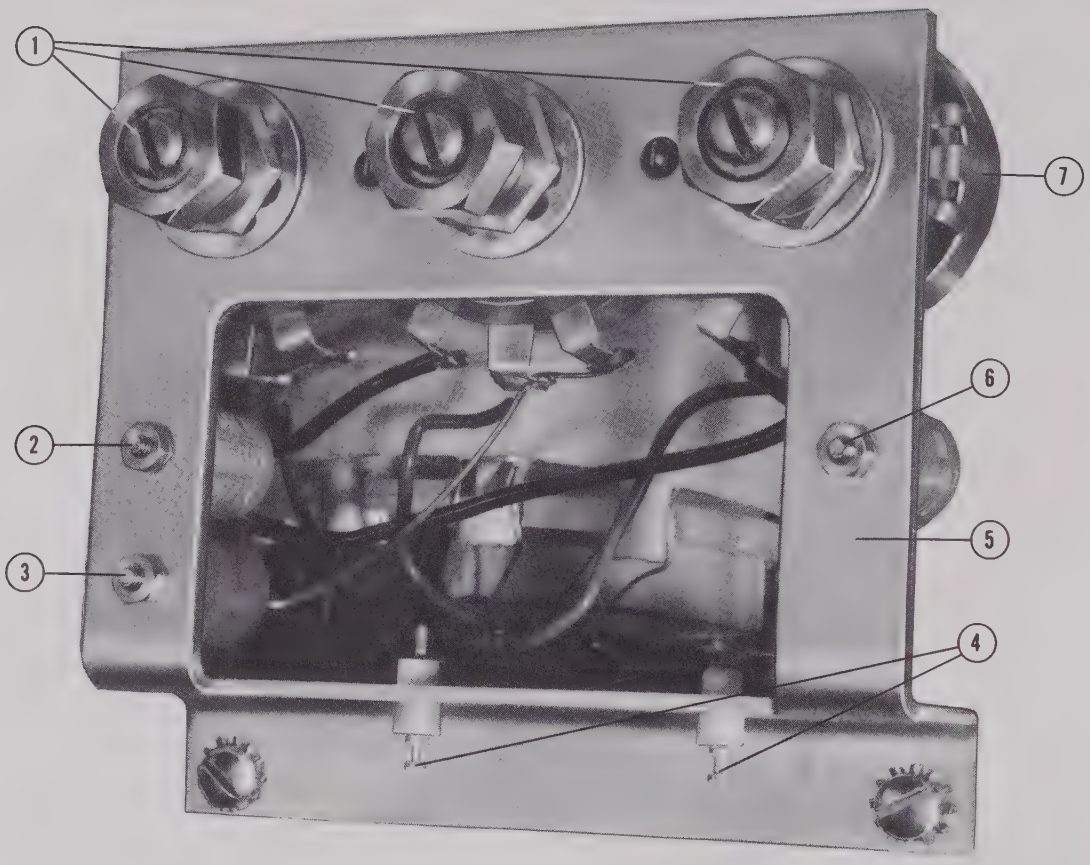
SYM.	PART NO.	DESCRIPTION
10	044106	Collar
	301003	Spacer
	154051	Lever
	006698	Bushing
	3-1-1-23	Hex Nut; 3/8-32 Alum.
	—	Lockwasher; #1220-02 Shakeproof
11	061594	Stud
	1-11-3-9	Lockwasher; #1208 Shakeproof
	R-54-S	Hex Nut; 8-32 Br.
12	009464	Spur Gear
13	009463	Spur Gear
	27-3-3-6	Retaining Ring
14	* 012449	Slidewire Assembly
15	059697	Shaft
16	29-5-0-9	Contact Assembly
	—	Screw; 7/32", 2-56 RH SS, Cad.P. (2)
	1-11-3-6	Lockwasher; #1202 Shakeproof (2)
17	110167	Dial Assembly; For C Switch, Incl:
	006699	Hub
	—	Set Screw; #00 P.K. Dr Type U (3)
18	154053	Contact Lever
	4-15-1-5	Screw; 1/4", 6-32 RHB, Cr.P.
	1-13-1-2	Washer; #6 Br, Cr.P.
	1-12-3-1	Lockwasher; #6 Kantlink
19	110165	Dial Assy; for Switches A & B, Incl:
	110162	Dial and Hub
	110164	Dial and Gear
	001823	Washer; 1-3/16" Delrin
	027190	Retainer

* *Replacement of slidewire and switches...the K-5 Universal Guarded Potentiometer is a precision instrument. Because the circuit slidewire, switches and their component resistors have been calibrated to a close interrelated tolerance, and because of the intricacies involved in replacement, we recommend that the instrument be returned to L&N for repair to assure continued optimum performance.*



Current Adjustment Assembly

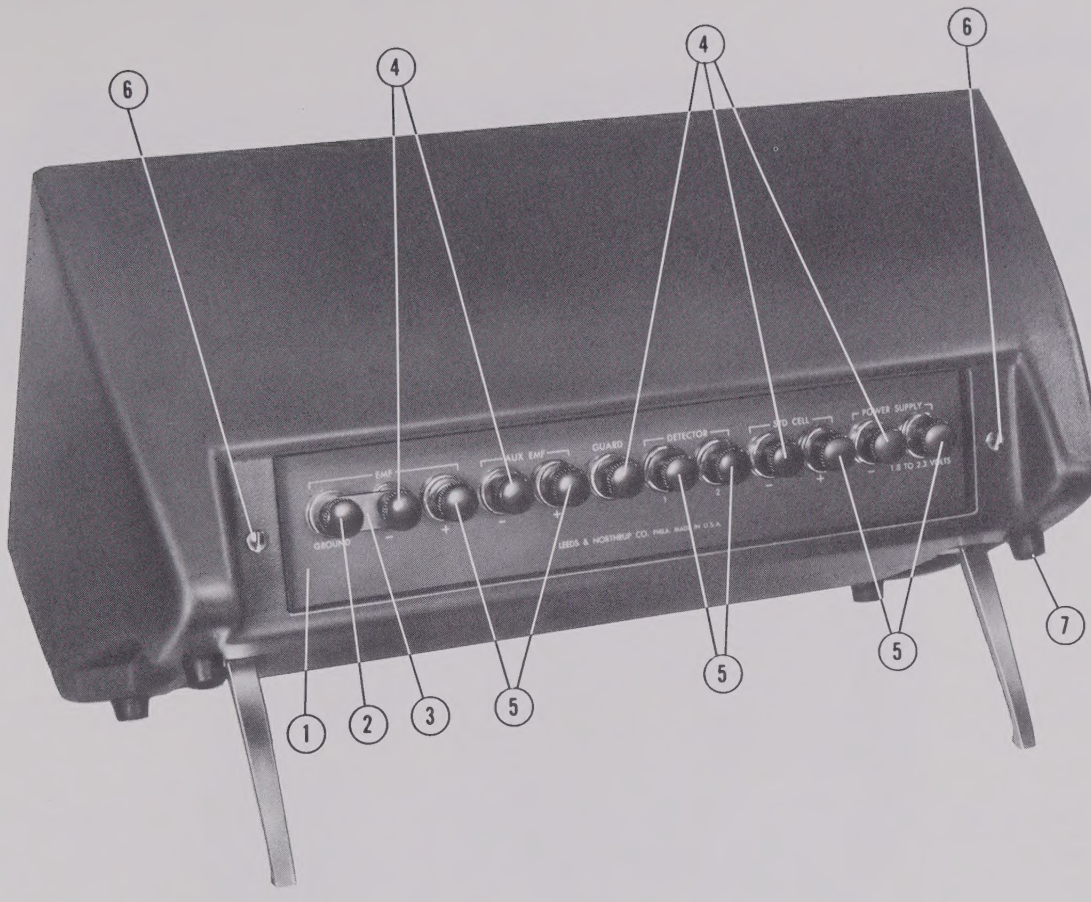
SYM.	PART NO.	DESCRIPTION
--	012529	Current Adjustment Assembly Includes syms 1 to 18
1	269215	Plate
2	061492	Stud (3)
	4-15-1-4	Screw; 1/4", 8-32 RHB, Cr.P. (6)
	1-11-3-9	Lockwasher; #1208 Shakeproof (6)
3	029656	Contact
	029658	Contact Holder
	037071	Flexible Wire
	4-15-1-1	Screw; 3/16", 2-56 RHB, Cr.P. (2)
4	269213	Plate
5	061634	Stud (4)
	---	Screw; 5/16", 6-32 FHB, Cr.P. (4)
6	128378	Coupling and Shaft
7	016741	Terminal
8	310398	Resistor
	Std 3225-B	Washer; 7/32" Fiber
	004155	Screw; 5/8", 2-56 RHB, Cr.P.
	---	Lockwasher; #1202-00 Shakeproof
9	310397	Resistor
	Std 3225-B	Washer; 7/32" Fiber
	004155	Screw; 5/8", 2-56 RHB, Cr.P.
	---	Lockwasher; #1202-00 Shakeproof
10	---	Washer; 1" OD x .430 ID x 3/32" thk Iron, Cad.Pl.
11	059763	Shaft
	Std 3225-A	Washer; 1/4" Fiber
12	Std 215-S	Clamp
	004729	Screw; 3/16", 4-40 RHB, Cr.P.
	1-11-3-7	Lockwasher; #1204 Shakeproof
13	012450	Slidewire
	037448	Flexible Wire
14	013202	Potentiometer; 100 ohms Linear, 10 turn
15	006692	Bushing; Br.
	3-1-1-23	Nut; 3/8-32 Alum.
	---	Lockwasher; #1920-00 Shakeproof
16	310283	Resistor
	Std 3225-B	Washer; 7/32" Fiber
	004155	Screw; 5/8", 2-56 RHB, Cr.P.
	---	Lockwasher; #1202-00 Shakeproof
	016821	Terminal
17	310284	Resistor
	Std 3225-B	Washer; 7/32" Fiber
	004155	Screw; 5/8", 2-56 RHB, Cr.P.
	---	Lockwasher; #1202-00 Shakeproof
	016821	Terminal
18	031400	Switch with Resistors
	3-1-1-23	Nut; 3/8-32 Alum.
	---	Lockwasher; #1920-00 Shakeproof



Range Change Potentiometer Assembly

SYM.	PART NO.	DESCRIPTION
1	003314	Jam Nut; 3/8-32 N.P. (3)
	3-1-1-23	Hex Nut; 3/8-32 Alum. (3)
	--	Lockwasher; #1220-00 Shakeproof (3)
2	310296	Resistor; 6037.9 ohms
	Std 3225-A	Washer; 1/4" OD, Fiber
	004155	Screw; 5/8", 2-56 RHB, Cr.P.
	Std 3225-B	Washer; 7/32" OD, Fiber
3	310295	Resistor; 5953.3 ohms
	Std 3225-A	Washer; 1/4" OD, Fiber
	004155	Screw; 5/8", 2-56 RHB, Cr.P.
	Std 3225-B	Washer; 7/32" OD, Fiber
4	016821	Terminal (2)
5	073997	Bracket
6	310297	Resistor; 19,628.0 ohms
	Std 3225-A	Washer; 1/4" OD, Fiber
	004155	Screw; 5/8", 2-56 RHB, Cr.P.
	Std 3225-B	Washer; 7/32" OD, Fiber
* 7	013331	Potentiometer; 200 ohms (3)

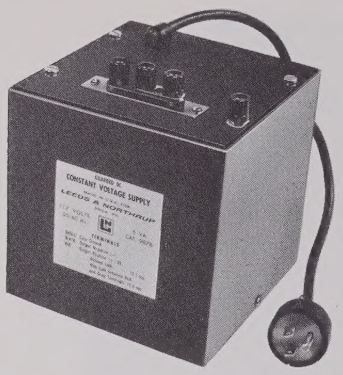
* *The settings of the three potentiometers are L&N calibrated. If replacements are required, instrument must be returned for recalibration.*



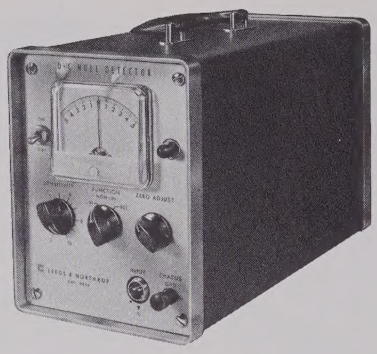
Terminal Board Assembly

SYM.	PART NO.	DESCRIPTION
--	016921	Terminal Board Assembly; includes syms 1 to 5
1	269070	Plate
2	124279	Binding Post Assembly; consists of:
	002199	Knob
	034565	Insulator; 23/64" thick
	001861	Washer; 7/8" OD Br.
	--	Lockwasher; #1808 Shakeproof
	3-1-1-29	Hex Nut; 8-32 Br, Cr.P.
	061467	Stud; Copper
3	074057	Link
4	124275	Binding Post Assembly; consists of:
	002199	Knob
	034491	Insulator; 11/64" thick
	034565	Insulator; 23/64" thick
	001861	Washer; 7/8" OD Br.
	--	Lockwasher; #1808 Shakeproof
	3-1-1-29	Hex Nut; 8-32 Br, Cr.P.
	061467	Stud; Copper
5	124274	Binding Post Assembly; consists of:
	002199	Knob
	016587	Binding Post Body
	034491	Insulator; 11/64" thick (2)
	016588	Terminal
	R-403-K	Hex Nut; 1/2-36 Br, Cr.P.
6	--	Screw; 1/2", 10-32 Bind HB, Cr.P. (2)
7	Std 2222-A	Bumper; (4) See sym 9 page 2

Accessories



9878



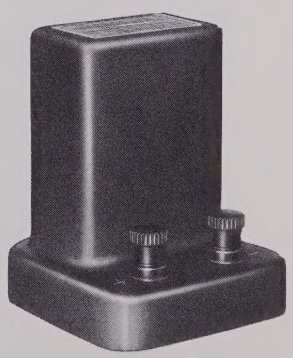
9834

7592

ITEM	LIST NO.	DESCRIPTION
Current Source	9878	Constant Voltage Power Supply. Input: 117 volts a-c ±10%, 50/60 Hertz, 6 va. Output: 2 volts d-c ±2% at 12.1 ma. For details request Data Sheet A12-3111
	7597	Lead-Acid Storage Cell. Rating: 2 volts, 200 ampere-hours
Cleaner-Lubricant	124179	For Slidewire. Two ounces with cloth wiper
Null Detector	9834	Guarded D-C. Sensitivity: 0.07 μv/mm; period, 2-4 seconds; input resistance, 25,000 ohms. For details request Data Sheet A12.1211
	9834-1	For Panel Mounting. Same electrical characteristics as 9834
Cable, Galvanometer	037200	3-foot Guarded Cable. For connecting galvanometer to K-5 potentiometer
Galvanometer	Type HS	Moving-Coil Reflecting D-C. Wide selection of high sensitivities, periods, and critical damping resistances. For details request Data Sheet A12.1111
	2430-A	Guarded D-C, enclosed Lamp and Scale. Sensitivity: 0.5 μv/scale div; period 3 seconds. For details request Data Sheet A12.1112
Ratio Set	4393	Universal D-C. Total resistance: 2111.11 ohms, adjustable in steps of 0.001 ohms. For details request Data Sheet A11.1211
Shunt	4385	For Current Measurement. Ranges: 0.075, 0.15, 0.3, 0.75, 1.5, 3.0, 7.5, and 15 amperes. For details request Data Sheet A0.1301
Volt Box	7582 7592 7593	Resistance: 750 ohms/volt; millivolt output: 150; limit of error: ±0.02% Ranges of 7582: 15, 150 and 300 volts. Ranges of 7592: 3, 7.5, 15, 30, 75, 150, 300, and 750 volts. Ranges of 7593: 3, 7.5, 15, 30, 75, 150, 300, 750, and 1500 volts. For details request Data Sheet A0.1301
Standard Cell	7308	Unsaturated. At 20 C, certified between 1.01884 and 1.01964 absolute volts. Limit of error: ±0.005% of certified value. Internal resistance: less than 500 ohms.
	7311	Saturated, portable voltage standard with temperature regulation. Voltage Stability: 1 ppm. For details request Data Sheet A0.1111

7311

2430-A



7308

Complete Facilities

7555-A-10 Potentiometer Facility Consists of following:

7555-1	Type K-5 Guarded Potentiometer
9834-1	Guarded D-C Null Detector
7308	Unsaturated Standard Cell
7597	Two-Volt Storage Cell

7555-A-12 Potentiometer Facility Same as 7555-A-10 except:

9878 Constant Voltage Power Supply in place of 7597 Storage Cell

Repairs...L&N repair, if required, is available in four types: (1) Emergency repair (2) Electrical repair (3) Electrical and Mechanical repair (4) Complete reconditioning. Contact the L&N Office nearest you for complete information and instructions for shipment to our North Wales plant.

Replacement of Potentiometer Circuit Slidewire And Switches... The K-5 Universal Guarded Potentiometer is a precision instrument with an accuracy of ±(0.003% of reading +3 μv) on the high range. Because the potentiometer circuit slidewire, switches and their component resistors have been calibrated to a close interrelated tolerance, and of the intricacies involved in replacement, we recommend that the instrument be returned to L&N for repair to assure continued optimum performance.

Calibration Reports... Periodic recalibration service is available to provide correction data and conditions of test. The calibration report is based on standards maintained by L&N Company and certified at intervals by the National Bureau of Standards. The service includes a general "trouble-shooting" check, and an overall cleaning of exposed contacts, slidewires, terminals, etc. For more extensive repair, see REPAIRS.

Replacement Parts Policy..."L&N will endeavor to make available replacement L&N-produced functional parts for at least ten (10) years following the date of withdrawal from general sale of the cataloged product in which the parts are used. For those parts or components purchased by L&N from sources over which L&N has no control of supply, there is no guarantee of availability."

L&N Field Offices

ALA. *35223, Birmingham, 4 Office Park Circle, Suite 109, 205 871-4639*
ARIZ. *85019, Phoenix, 3839 N. 39th Ave., 602 272-2540*
CAL., *Los Angeles: 1190 Monterey Pass Rd., Monterey Park, Cal. 91754, 213 269-3191*
CAL. *94103, San Francisco, 1095 Market St., 415 621-3464*
COLO. *80210, Denver, 2442 South Downing St., 303 744-1047*
CONN. *06117, West Hartford, 2535 Albany Ave., 203 232-4474*
DEL. *19803, Wilmington, 2625 Concord Pike, 302 478-3248*
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GA. *30305, Atlanta, 2964 Peachtree Rd., N.W., 404 237-8624*
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ILL. *60438, Lansing, 18525 Torrence Ave., 312 474-7070*
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IOWA, *Davenport: 321 8th St., Bettendorf, Iowa 52722, 319 355-6439*
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MASS., *Boston: 875 Providence Hwy., Dedham, Mass. 02026, 617 326-8816*
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NEB. *68132, Omaha, 7000 Dodge St., 402 551-0592*
N.J. *07017, East Orange, 99 Washington St., 201 678-0420*
N.M. *87108, Albuquerque, 5301 Central Ave., N.E., 505 265-4121*
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N.Y. *10017, New York, 201 East 42nd St., 212 687-4133*
N.Y. *13206, Syracuse, 3522 James St., 315 437-3305*
N.C. *27103, Winston-Salem, 1250 National Drive, 919 723-1087*
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UTAH *84111, Salt Lake City, 445 East Second, S., 801 328-8861*
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WASH. *98109, Seattle, 1311 Republican St., 206 623-5505*
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